General

Title

Myelodysplastic syndromes (MDS): percentage of MDS patients presenting with anemia who had evidence of adequate iron stores within 60 days prior to receiving erythropoietin/darbepoetin therapy.

Source(s)

American Society of Hematology (ASH). Myelodysplastic syndromes (MDS) measure set: measure specifications. Washington (DC): American Society of Hematology (ASH); 2017 Feb. 14 p.

Measure Domain

Primary Measure Domain

Clinical Quality Measures: Process

Secondary Measure Domain

Does not apply to this measure

Brief Abstract

Description

This measure is used to assess the percentage of myelodysplastic syndromes (MDS) patients greater than 18 years old presenting with anemia (hemoglobin [Hgb] less than 10 g/dL) who had evidence of adequate iron stores within 60 days prior to receiving erythropoietin/darbepoetin therapy.

Rationale

Excerpts (verbatim) from guidelines
Iron repletion needs to be verified before instituting Epo or darbepoetin therapy (National Comprehensive Cancer Network [NCCN], 2015).

Evidence for Rationale

American Society of Hematology (ASH). Myelodysplastic syndromes (MDS) measure set: measure specifications. Washington (DC): American Society of Hematology (ASH); 2017 Feb. 14 p.

National Comprehensive Cancer Network (NCCN). NCCN clinical practice guidelines in oncology: myelodysplastic syndromes. V1.2016. Fort Washington (PA): National Comprehensive Cancer Network (NCCN); 2015 May 28.

Primary Health Components

Myelodysplastic syndromes (MDS); anemia; iron stores; erythropoietin therapy; darbepoetin therapy

Denominator Description

The number of myelodysplastic syndromes (MDS) patients in your selection who are being treated with erythropoietin/darbepoetin (see the related "Denominator Inclusions/Exclusions" field)

Numerator Description

The number of myelodysplastic syndromes (MDS) patients in your selection

AND

Being treated with erythropoietin/darbepoetin

AND

Bone marrow examination including iron stain within 60 days preceding erythropoietin/darbepoetin therapy

OR

Testing of blood showing serum ferritin greater than 100 ng/ml and/or the ratio of serum iron to total iron binding capacity (TIBC) is greater than 20 percent within 60 days preceding erythropoietin/darbepoetin therapy

See the related "Numerator Inclusions/Exclusions" field.

Evidence Supporting the Measure

Type of Evidence Supporting the Criterion of Quality for the Measure

A clinical practice guideline or other peer-reviewed synthesis of the clinical research evidence

Additional Information Supporting Need for the Measure

Evidence of gap:
The American Society of Hematology (ASH) conducted an analysis of the results of the myelodysplastic syndromes (MDS) chart abstraction done since the tool was released in 2006 (~1400 patients). Performance for this measure was 95.8%. Since 2013, performance for this measure was 86% for 203 patients.

Evidence for Additional Information Supporting Need for the Measure

American Society of Hematology (ASH). Myelodysplastic syndromes (MDS) measure set: measure specifications. Washington (DC): American Society of Hematology (ASH); 2017 Feb. 14 p.

Extent of Measure Testing

The myelodysplastic syndromes (MDS) measure set was developed by the American Society of Hematology (ASH) using a rigorous methodology (adapted from the American Medical Association [AMA]-convened Physician Consortium for Performance Improvement [PCPI]) and has been field tested. The MDS measure set was accepted by American Board of Internal Medicine (ABIM) for use with practice improvement modules meeting Part 4 of Maintenance of Certification Requirements in 2006.

Evidence for Extent of Measure Testing

Frechette S. (Principal, Northfield Associates, LLC, Warren, VT). Personal communication. 2014 Dec 10. 1 p.

State of Use of the Measure

State of Use

Current routine use

Current Use

not defined yet

Application of the Measure in its Current Use

Measurement Setting

Ambulatory/Office-based Care

Professionals Involved in Delivery of Health Services

not defined yet

Least Aggregated Level of Services Delivery Addressed

Individual Clinicians or Public Health Professionals

Statement of Acceptable Minimum Sample Size

Specified

Target Population Age

Age greater than 18 years

Target Population Gender

Either male or female

National Strategy for Quality Improvement in Health Care

National Quality Strategy Aim

Better Care

National Quality Strategy Priority

Prevention and Treatment of Leading Causes of Mortality

Institute of Medicine (IOM) National Health Care Quality Report Categories

IOM Care Need

Living with Illness

IOM Domain

Effectiveness

Data Collection for the Measure

Case Finding Period

Unspecified

Denominator Sampling Frame

Patients associated with provider

Denominator (Index) Event or Characteristic

Clinical Condition

Encounter

Patient/Individual (Consumer) Characteristic

Therapeutic Intervention

Denominator Time Window

not defined yet

Denominator Inclusions/Exclusions

Inclusions
The number of myelodysplastic syndromes (MDS) patients in your selection who are being treated with erythropoietin/darbepoetin

Patients can be included in the chart abstraction if:

- They have been seen by the practice within the past 18 months
- Management decisions regarding care are made primarily by providers in the practice
- They are greater than 18 years old (or the age at which your institution refers to adult hematologists)

Note: Refer to the original measure documentation for a list of International Classification of Diseases, Tenth Revision (ICD-10) codes used in MDS patient selection and a list of Healthcare Common Procedure Coding System (HCPCS) codes for erythropoietin/darbepoetin therapy.

Exclusions
None

Exclusions/Exceptions

not defined yet

Numerator Inclusions/Exclusions

Inclusions

The number of myelodysplastic syndromes (MDS) patients in your selection

AND

Being treated with erythropoietin/darbepoetin

AND

Bone marrow examination including iron stain within 60 days preceding erythropoietin/darbepoetin therapy

OR

Testing of blood showing serum ferritin greater than 100 ng/ml and/or the ratio of serum iron to total iron binding capacity (TIBC) is greater than 20% within 60 days preceding erythropoietin/darbepoetin therapy

Note: Refer to the original measure documentation for a list of International Classification of Diseases, Tenth Revision (ICD-10) codes used in MDS patient selection, a list of Healthcare Common Procedure Coding System (HCPCS) codes for erythropoietin therapy, and a list of Current Procedural Terminology (CPT) codes for bone marrow iron stain and peripheral blood (iron, ferritin, and iron binding).

Exclusions
None

Numerator Search Strategy

Fixed time period or point in time

Data Source

Administrative clinical data

Paper medical record

Type of Health State

Does not apply to this measure

Instruments Used and/or Associated with the Measure

Unspecified

Computation of the Measure

Measure Specifies Disaggregation

Does not apply to this measure

Scoring

Rate/Proportion

Interpretation of Score

Desired value is a higher score

Allowance for Patient or Population Factors

not defined yet

Standard of Comparison

not defined yet

Identifying Information

Original Title

Measure 3: MDS patient presenting with anemia (Hgb<10g/dL) had evidence of adequate iron stores within 60 days prior to receiving erythropoietin/darbepoietin therapy.

Measure Collection Name

Myelodysplastic Syndromes Measure Set

Submitter

American Society of Hematology - Medical Specialty Society

Developer

American Society of Hematology - Medical Specialty Society

Funding Source(s)

The American Society of Hematology

Composition of the Group that Developed the Measure

The American Society of Hematology (ASH) Myelodysplastic Syndromes (MDS) Task Force:

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Financial Disclosures/Other Potential Conflicts of Interest

Unspecified

Endorser

National Quality Forum - None

NQF Number

not defined yet

Date of Endorsement

2016 Oct 26

Measure Initiative(s)

Physician Quality Reporting System

Adaptation

This measure was not adapted from another source.

Date of Most Current Version in NQMC

2017 Feb

Measure Maintenance

American Society of Hematology (ASH) reviews/updates measures annually

Date of Next Anticipated Revision

Unspecified

Measure Status

This is the current release of the measure.

This measure updates a previous version: American Society of Hematology (ASH). Myelodysplastic syndromes (MDS) measure set: measure specifications. Washington (DC): American Society of Hematology (ASH); 2015 Dec. 16 p.

Measure Availability

Source not available electronically.

For more information, contact the American Society of Hematology (ASH) at 2021 L Street NW, Suite 900, Washington, DC 20036; Phone: 202-776-0544; Fax: 202-776-0545; Web site: www.hematology.org .

NQMC Status

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Production

Source(s)

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